

### **INPUT SET: S30805.raw**

**This Raw Listing contains the General Information Section and up to the first 5 pages.**

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/875,849ADATE: 01/15/99  
TIME: 14:53:51

INPUT SET: S30805.raw

47 (ix) TELECOMMUNICATION INFORMATION:  
48 (A) TELEPHONE: 781-861-6240  
49 (B) TELEFAX: 781-861-9540

50

51

52 (2) INFORMATION FOR SEQ ID NO:1:

53

54 (i) SEQUENCE CHARACTERISTICS:  
55 (A) LENGTH: 1624 base pairs  
56 (B) TYPE: nucleic acid  
57 (C) STRANDEDNESS: double  
58 (D) TOPOLOGY: linear

59

60 (ii) MOLECULE TYPE: cDNA

61

62

63 (ix) FEATURE:  
64 (A) NAME/KEY: CDS  
65 (B) LOCATION: 1..1218

66

67

68 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

69

70 ATG GAT TTC GGA CTG GCC CTC CTG CTG GCG GGG CTT CTG GGG CTC CTC	48
71 Met Asp Phe Gly Leu Ala Leu Leu Leu Ala Gly Leu Leu Gly Leu Leu	
72 1 5 10 15	
73 CTC GGC CAG TCC CTC CAG GTG AAG CCC CTG CAG GTG GAG CCC CCG GAG	96
74 Leu Gly Gln Ser Leu Gln Val Lys Pro Leu Gln Val Glu Pro Pro Glu	
75 20 25 30	
77 CCG GTG GTG GCC GTG GCC TTG GGC GCC TCG CGC CAG CTC ACC TGC CGC	144
78 Pro Val Val Ala Val Ala Leu Gly Ala Ser Arg Gln Leu Thr Cys Arg	
79 35 40 45	
81 CTG GCC TGC GCG GAC CGC GGG GCC TCG GTG CAG TGG CGG GGC CTG GAC	192
82 Leu Ala Cys Ala Asp Arg Gly Ala Ser Val Gln Trp Arg Gly Leu Asp	
83 50 55 60	
85 ACC AGC CTG GGC GCG GTG CAG TCG GAC ACG GGC CGC AGC GTC CTC ACC	240
86 Thr Ser Leu Gly Ala Val Gln Ser Asp Thr Gly Arg Ser Val Leu Thr	
87 65 70 75 80	
90 GTG CGC AAC GCC TCG CTG TCG GCG GCC GGG ACC CGC GTG TGC GTG GGC	288
91 Val Arg Asn Ala Ser Leu Ser Ala Ala Gly Thr Arg Val Cys Val Gly	
92 85 90 95	
94 TCC TGC GGG GGC CGC ACC TTC CAG CAC ACC GTG CAG CTC CTT GTG TAC	336
95 Ser Cys Gly Arg Thr Phe Gln His Thr Val Gln Leu Leu Val Tyr	
96 100 105 110	
98 GCC TTC CCG GAC CAG CTG ACC GTC TCC CCA GCA GCC CTG GTG CCT GGT	384
99 Ala Phe Pro Asp Gln Leu Thr Val Ser Pro Ala Ala Leu Val Pro Gly	

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100	115	120	125	
101				
102	GAC CCG GAG GTG GCC TGT ACG GCC CAC AAA GTC ACG CCC GTG GAC CCC			432
103	Asp Pro Glu Val Ala Cys Thr Ala His Lys Val Thr Pro Val Asp Pro			
104	130	135	140	
105				
106	AAC GCG CTC TCC TTC TCC CTG CTC GTC GGG GGC CAG GAA CTG GAG GGG			480
107	Asn Ala Leu Ser Phe Ser Leu Leu Val Gly Gly Gln Glu Leu Glu Gly			
108	145	150	155	160
109				
110	GCG CAA GCC CTG GGC CCG GAG GTG CAG GAG GAG GAG GAG CCC CAG			528
111	Ala Gln Ala Leu Gly Pro Glu Val Gln Glu Glu Glu Glu Pro Gln			
112	165	170	175	
113				
114	GGG GAC GAG GAC GTG CTG TTC AGG GTG ACA GAG CGC TGG CGG CTG CCG			576
115	Gly Asp Glu Asp Val Leu Phe Arg Val Thr Glu Arg Trp Arg Leu Pro			
116	180	185	190	
117				
118	CCC CTG GGG ACC CCT GTC CCG CCC GCC CTC TAC TGC CAG GCC ACG ATG			624
119	Pro Leu Gly Thr Pro Val Pro Pro Ala Leu Tyr Cys Gln Ala Thr Met			
120	195	200	205	
121				
122	AGG CTG CCT GGC TTG GAG CTC AGC CAC CGC CAG GCC ATC CCC GTC CTG			672
123	Arg Leu Pro Gly Leu Glu Leu Ser His Arg Gln Ala Ile Pro Val Leu			
124	210	215	220	
125				
126	CAC AGC CCG ACC TCC CCG GAG CCT CCC GAC ACC ACC TCC CCG GAG CCT			720
127	His Ser Pro Thr Ser Pro Glu Pro Pro Asp Thr Thr Ser Pro Glu Pro			
128	225	230	235	240
129				
130	CCC AAC ACC ACC TCC CCG GAG TCT CCC GAC ACC ACC TCC CCG GAG TCT			768
131	Pro Asn Thr Thr Ser Pro Glu Ser Pro Asp Thr Thr Ser Pro Glu Ser			
132	245	250	255	
133				
134	CCC GAC ACC ACC TCC CAG GAG CCT CCC GAC ACC ACC TCC CAG GAG CCT			816
135	Pro Asp Thr Thr Ser Gln Glu Pro Pro Asp Thr Thr Ser Gln Glu Pro			
136	260	265	270	
137				
138	CCC GAC ACC ACC TCC CAG GAG CCT CCC GAC ACC ACC TCC CCG GAG CCT			864
139	Pro Asp Thr Thr Ser Gln Glu Pro Pro Asp Thr Thr Ser Pro Glu Pro			
140	275	280	285	
141				
142	CCC GAC AAG ACC TCC CCG GAG CCC GCC CCC CAG CAG GGC TCC ACA CAC			912
143	Pro Asp Lys Thr Ser Pro Glu Pro Ala Pro Gln Gln Gly Ser Thr His			
144	290	295	300	
145				
146	ACC CCC AGG AGC CCA GGC TCC ACC AGG ACT CGC CGC CCT GAG ATC TCC			960
147	Thr Pro Arg Ser Pro Gly Ser Thr Arg Thr Arg Arg Pro Glu Ile Ser			
148	305	310	315	320
149				
150	CAG GCT GGG CCC ACG CAG GGA GAA GTG ATC CCA ACA GGC TCG TCC AAA			1008
151	Gln Ala Gly Pro Thr Gln Gly Glu Val Ile Pro Thr Gly Ser Ser Lys			
152	325	330	335	

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153  
154 CCT GCG GGT GAC CAG CTG CCC GCG GCT CTG TGG ACC AGC AGT GCG GTG 1056  
155 Pro Ala Gly Asp Gln Leu Pro Ala Ala Leu Trp Thr Ser Ser Ala Val  
156 340 345 350  
157  
158 CTG GGA CTG CTG CTC CTG GCC TTG CCC ACG TAT CAC CTC TGG AAA CGC 1104  
159 Leu Gly Leu Leu Leu Ala Leu Pro Thr Tyr His Leu Trp Lys Arg  
160 355 360 365  
161  
162 TGC CGG CAC CTG GCT GAG GAC GAC ACC CAC CCA CCA GCT TCT CTG AGG 1152  
163 Cys Arg His Leu Ala Glu Asp Asp Thr His Pro Pro Ala Ser Leu Arg  
164 370 375 380  
165  
166 CTT CTG CCC CAG GTG TCG GCC TGG GCT GGG TTA AGG GGG ACC GGC CAG 1200  
167 Leu Leu Pro Gln Val Ser Ala Trp Ala Gly Leu Arg Gly Thr Gly Gln  
168 385 390 395 400  
169  
170 GTC GGG ATC AGC CCC TCC TGAGTGGCCA GCCTTTCCCC CTGTGAAAGC 1248  
171 Val Gly Ile Ser Pro Ser  
172 405  
173  
174 AAAATAGCTT GGACCCCTTC AAGTTGAGAA CTGGTCAGGG CAAACCTGCC TCCCATTCTA 1308  
175  
176 CTCAAAGTCA TCCCTCTGCT CACAGAGATG GATGCATGTT CTGATTGCCT CTTTGGAGAA 1368  
177  
178 GCTCATCAGA AACTCAAAAG AAGGCCACTG TTTGTCTCAC CTACCCATGA CCTGAAGCCC 1428  
179  
180 CTCCCTGAGT GGTCCCCACC TTTCTGGACG GAACCACGTA CTTTTTACAT ACATTGATTC 1488  
181  
182 ATGTCTCACG TCTCCCTAAA AATGCGTAAG ACCAAGCTGT GCCCTGACCA CCCTGGCCC 1548  
183  
184 CTGTCGTCAG GACCTCCTGA GGCTTTGGCA AATAAACCTC CTAAAATGAT AAAAAAAA 1608  
185  
186 AAAAAAAA AAAAAA 1624  
187  
188  
189 (2) INFORMATION FOR SEQ ID NO:2:  
190  
191 (i) SEQUENCE CHARACTERISTICS:  
192 (A) LENGTH: 406 amino acids  
193 (B) TYPE: amino acid  
194 (D) TOPOLOGY: linear  
195  
196 (ii) MOLECULE TYPE: protein  
197  
198 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:  
199  
200 Met Asp Phe Gly Leu Ala Leu Leu Leu Ala Gly Leu Leu Gly Leu Leu  
201 1 5 10 15  
202  
203 Leu Gly Gln Ser Leu Gln Val Lys Pro Leu Gln Val Glu Pro Pro Glu  
204 20 25 30  
205

RAW SEQUENCE LISTING  
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206 Pro Val Val Ala Val Ala Leu Gly Ala Ser Arg Gln Leu Thr Cys Arg  
207 35 40 45  
208  
209 Leu Ala Cys Ala Asp Arg Gly Ala Ser Val Gln Trp Arg Gly Leu Asp  
210 50 55 60  
211  
212 Thr Ser Leu Gly Ala Val Gln Ser Asp Thr Gly Arg Ser Val Leu Thr  
213 65 70 75 80  
214  
215 Val Arg Asn Ala Ser Leu Ser Ala Ala Gly Thr Arg Val Cys Val Gly  
216 85 90 95  
217  
218 Ser Cys Gly Gly Arg Thr Phe Gln His Thr Val Gln Leu Leu Val Tyr  
219 100 105 110  
220  
221 Ala Phe Pro Asp Gln Leu Thr Val Ser Pro Ala Ala Leu Val Pro Gly  
222 115 120 125  
223  
224 Asp Pro Glu Val Ala Cys Thr Ala His Lys Val Thr Pro Val Asp Pro  
225 130 135 140  
226  
227 Asn Ala Leu Ser Phe Ser Leu Leu Val Gly Gly Gln Glu Leu Glu Gly  
228 145 150 155 160  
229  
230 Ala Gln Ala Leu Gly Pro Glu Val Gln Glu Glu Glu Glu Pro Gln  
231 165 170 175  
232  
233 Gly Asp Glu Asp Val Leu Phe Arg Val Thr Glu Arg Trp Arg Leu Pro  
234 180 185 190  
235  
236 Pro Leu Gly Thr Pro Val Pro Pro Ala Leu Tyr Cys Gln Ala Thr Met  
237 195 200 205  
238  
239 Arg Leu Pro Gly Leu Glu Leu Ser His Arg Gln Ala Ile Pro Val Leu  
240 210 215 220  
241  
242 His Ser Pro Thr Ser Pro Glu Pro Pro Asp Thr Thr Ser Pro Glu Pro  
243 225 230 235 240  
244  
245 Pro Asn Thr Thr Ser Pro Glu Ser Pro Asp Thr Thr Ser Pro Glu Ser  
246 245 250 255  
247  
248 Pro Asp Thr Thr Ser Gln Glu Pro Pro Asp Thr Thr Ser Gln Glu Pro  
249 260 265 270  
250  
251 Pro Asp Thr Thr Ser Gln Glu Pro Pro Asp Thr Thr Ser Pro Glu Pro  
252 275 280 285  
253  
254 Pro Asp Lys Thr Ser Pro Glu Pro Ala Pro Gln Gln Gly Ser Thr His  
255 290 295 300  
256  
257 Thr Pro Arg Ser Pro Gly Ser Thr Arg Thr Arg Arg Pro Glu Ile Ser  
258 305 310 315 320

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**SEQUENCE VERIFICATION REPORT**  
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Line

Error

Original Text